SpaceLogic Sensors Pressure - Dry Differential Switch SPD910 Series



Product Description

This series of four SPD910 differential air flow switches are intended for use in air handling systems for the monitoring of air ducts, filters and fans.

The enclosure is plastic with a rating of IP54. A set-point adjustment is provided under the clip-on clear plastic cover.

Supplied complete with mounting adaptor ring, two straight duct probes and 2 metre (6.56 feet) length clear tubing.

Features

- · Easy to install
- · User friendly snap cover
- · Case geometry allows easy cable lead-in
- Cable strain relief integrated in PG11 (DIN 40430)
- High adjustment accuracy through individual laser etched scale
- Long-term stability of switching points through trapezoidal bead diaphragm
- · Multi-layer gold plated contact

Available Products

| Part No. | Model No. | Description | Pressure Range |
|-----------|---------------|--|----------------------------------|
| 004701060 | SPD910-300Pa | Air Differential Pressure Switch | 20 300 Pa (0.08 1.2 in. W.C) |
| 004701070 | SPD910-500Pa | Air Differential Pressure Switch | 50 500 Pa (0.2 2.0 in. W.C) |
| 004701080 | SPD910-1000Pa | Air Differential Pressure Switch | 100 1000 Pa (0.4 4.0 in. W.C) |
| 004701090 | SPD910-2000Pa | Air Differential Pressure Switch | 500 2000 Pa (2.0 8.0 in. W.C) |
| | | | |

Specifications

| Medium | Air and neutral gases | |
|-----------------|------------------------------|--|
| Pressure range | See Available Products table | |
| Set-point scale | Pa | |

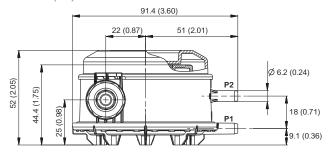
Specifications (cont.)

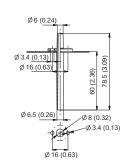
| Tolerable overload on one side | | 5000 Pa at -30 +85 °C 20 in. W.C at -22 +185 °F | |
|--------------------------------------|--|--|--|
| Repeatability | SPD910-300Pa | ±2.5 Pa (0.01 in. W.C) | |
| | SPD910-500Pa | ±5 Pa (0.02 in. W.C) | |
| | SPD910-1000Pa | ±5 Pa (0.02 in. W.C) | |
| | SPD910-2000Pa | ±5 Pa (0.02 in. W.C) | |
| Switching load | Resistive load | 5 A at 250 Vac 4 A at 30 Vdc | |
| | Inductive | 0.8 A at 250 Vac 0.7 A at 30 Vdc | |
| Materials in contact with the medium | | Case: PC 10% GF Cover: PC Diaphragm: Silicone LSR tempered 200 °C, free of gas emissions | |
| Operating | Medium/ambient | -30 +85 °C (-22 +185 °F) | |
| temperature | Storage | -40 +85 °C (-40 +185 °F) | |
| Service life | | Mechanical > 10 ⁶ switching cycles | |
| Electrical connection | | Screw terminals Cable gland type PG11 (DIN 40430) complete with cable strain relief | |
| Switch contact type | | SPDT (change-over) | |
| Protection | Without cover | IP 00 | |
| standard | With cover | IP 54 | |
| Pressure connections | | Pipe Ø 6.2 mm | |
| Tests/ admissions | Electromagnetic compatibility | CE conformity according to EN 60730-2-6: 2008 | |
| | EU conformity | Low voltage directive 2014/35/EU | |
| | Gas appliance directive | 2009/142/EC | |
| | Pressure sensing devices for gas burners & gas burning appliances | EN 1854:2010 | |
| | EU directive on RoHS | 2011/65/EU | |
| | | | |

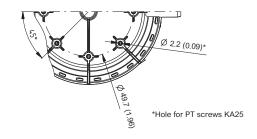
North America (USA): +1 888 444 1311
Europe, Middle East & Africa (Sweden): +46 10 478 2000
Asia Pacific (Singapore): +65 6484 7877
product.support@schneider-electric.com
www.schneider-electric.com

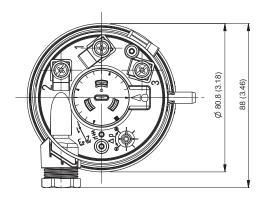


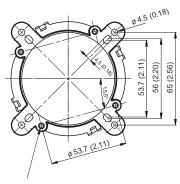
Dimensions mm (in.)











4 x hole PT - screw d₁ = 3.0 mm (0.12 in.)

Functions

The pressure switch has two separate pressure chambers, each with its own connection. The change-over switch operates according to the user-defined set-point and type of monitoring application required. Normally closed, the switch contact is made across terminals 1 and 2; when normally open the switch contact is made across terminals 1 and 3.

Vacuum Monitoring

Connect the pressure switch via P2. Do not connect P1. Leave P1 open. Make sure that debris cannot get into P1.

High Pressure Monitoring

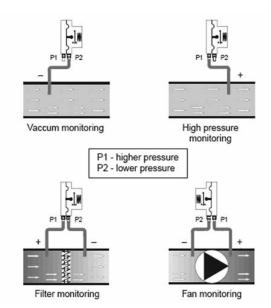
Connect the pressure switch via P1. Do not connect P2. Leave P2 open. Make sure that debris cannot get into P2.

Filter Monitoring

Connect P1 before the filter and P2 after it.

Fan Monitoring

Connect P1 after the fan (in air flow direction) and P2 before the fan.



North America (USA): +1 888 444 1311
Europe, Middle East & Africa (Sweden): +46 10 478 2000
Asia Pacific (Singapore): +65 6484 7877
product.support@schneider-electric.com
www.schneider-electric.com

